

AN11m ATGGGTCATCAGCGTGGGCGTTCCCTAAGGACTTCCCTGGCCGGGGGGTCCGGCGTCCGCTCTCCAGAGCGGGTGGC 80
 AN12m ATGACACATCGCGCTGGTCCCTTCCCAAGGACTTCCCTGGCGGGTGGAGTGGCCGGCGCCATCTCCAGAGCGGGCGGTAGC 80
 AN13m ATGACCGAGCAGCGCTGGTCCCTTCCCAAGGACTTCCCTGGCGGGGGTCCGGCGCGCCATCTCCAGAGCGGGCGGTGGC 80

AN11m GGGCATCCAGCGGGTCAAGGCTGCTGCTGCGAGTCCAGCATGCCAGCAAGCAGATCAGTGGTCAAGCAGTACAAAGGCA 160
 AN12m GGGCATCCAGCGGGTCAAGGCTGCTGCTGCGAGTCCAGCATGCCAGCAAGCAGATCAGTGGTCAAGCAGTACAAAGGCA 160
 AN13m GGGCATCCAGCGGGTCAAGGCTGCTGCTGCGAGTCCAGCATGCCAGCAAGCAGATCAGTGGTCAAGCAGTACAAAGGCA 160

AN11m TCATTGATTTGTGTGGTGGATCCCTAAGGCGCGGGCTCTCTCTCTTCTGGAGGGGTAACTGGCCAAAGTGTATCCGT 240
 AN12m TTATATGACTGGTGGTCCGTATTTCCCAAGGCGCGGGCTCTCTCTCTTCTGGAGGGGTAACTGGCCAAAGTGTATCCGT 240
 AN13m TCGTGGACTGCTATTTGTCCGATCCCAAGGCGCGGGCTCTCTCTCTTCTGGAGGGGTAACTGGCCAAAGTGTATCCGT 240

AN11m TACTTCCCCACCCAGGCTCTCAACTTCGCGCTTCAGGCAAGTACAAGCAGCTCTTCTCTTGGGGTGTGGATCCGGCTAA 320
 AN12m TACTTCCCCACCCAGGCTCTCAACTTCGCGCTTCAGGCAAGTACAAGCAGATCTTCTGGGTGGTGTGGCAAGCAGCTAC 320
 AN13m TACTTCCCCACCCAGGCTCTCAACTTCGCGCTTCAGGCAAGTACAAGCAGATCTTCTGGGGGTGGCAAGCAGCTAC 320

AN11m GCAGTTCGCGCGTACTTTCGGTAAACCTGGCGTCCGGTGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 400
 AN12m GCAGTTCGCGCGTACTTTCGGTAAACCTGGCGTCCGGTGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 400
 AN13m GCAGTTCGCGCGTACTTTCGGTAAACCTGGCGTCCGGTGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 400

AN11m TGGCTTTTGGCTAGCAAGGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 477
 AN12m TTGATTTTGGCTAGCAAGGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
 AN13m TGGATTTTGGCTAGCAAGGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480

AN11m ATCTCTCAAGATCTCTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 557
 AN12m CTGGGTAGATCTCTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 560
 AN13m CTGGGTAGATCTCTCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 560

AN11m TAGAGCTGCGTACTTTCGGTAAACCTGGCGTCCGGTGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 637
 AN12m CCGAGCGCGCGTACTTTCGGTAAACCTGGCGTCCGGTGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 640
 AN13m CCGAGCGCGCGTACTTTCGGTAAACCTGGCGTCCGGTGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 640

AN11m GGATGATTCGCGCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 717
 AN12m GGATGATTCGCGCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
 AN13m GGATGATTCGCGCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720

AN11m CAGTCCGGCGCGCAAGGGCG 797
 AN12m CAGTCCGGCGCGCAAGGGCG 800
 AN13m CAGTCCGGCGCGCAAGGGCG 800

AN11m CAGGGCGCTTCTTCAAGGGTGGTGGTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 877
 AN12m CAGGGCGCTTCTTCAAGGGTGGTGGTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 880
 AN13m CAGGGCGCTTCTTCAAGGGTGGTGGTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 880

AN11m TCAGAGATTTATGCTCA 894
 AN12m TCAGAGATTTATGCTCA 897
 AN13m TCAGAGATTTATGCTCA 897

Figure 1

hANT1p MGDHAWSFILKDFLAGAVAAAMSKTAVAPIERVKLLLLQVQHASKQISAEEKQ 50
 hANT2p MTDAAVVSFAKDFLAGGVAAAISKTA VAPIERVKLLLLQVQHASKQIIADKQ 50
 hANT3p MTEQATISFAKDFLAGGIAAAISKTA VAPIERVKLLLLQVQHASKQIADKQ 50

 hANT1p YKGIIDCVVRIPKEQGFLSFWRGNLANVTIRYFPTQALNFAFKDKYKQIFL 100
 hANT2p YKGIIDCVVRIPKEQGVLSFWRGNLANVTIRYFPTQALNFAFKDKYKQIFL 100
 hANT3p YKGIIDCVVRIPKEQGVLSFWRGNLANVTIRYFPTQALNFAFKDKYKQIFL 100

 hANT1p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 149
 hANT2p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 149
 hANT3p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 150

 hANT1p QREFHGLGDCIITKIKSDGIRGLYQGFNVSVQGIITIRAAAYFGVYDTAKG 199
 hANT2p EREFRGLGDCIITKIKSDGIRGLYQGFNVSVQGIITIRAAAYFGVYDTAKG 200
 hANT3p EREFRGLGDCIITKIKSDGIRGLYQGFNVSVQGIITIRAAAYFGVYDTAKG 200

 hANT1p MLPDPKNTHTVVSWMIAQSVTAVAGLISYPFDIVRRRMMMQSGRKGADIM 249
 hANT2p MLPDPKNTHTVVSWMIAQSVTAVAGLISYPFDIVRRRMMMQSGRKGADIM 250
 hANT3p MLPDPKNTHTVVSWMIAQSVTAVAGLISYPFDIVRRRMMMQSGRKGADIM 250

 hANT1p YTGTVDWCWRKIAKDEGAKAFFKGAWSNVLRCMGGAFLVLVLYDEIKKYV. 298
 hANT2p YTGTVDWCWRKIAKDEGAKAFFKGAWSNVLRCMGGAFLVLVLYDEIKKYV. 299
 hANT3p YTGTVDWCWRKIAKDEGAKAFFKGAWSNVLRCMGGAFLVLVLYDEIKKYV. 299

Figure 2

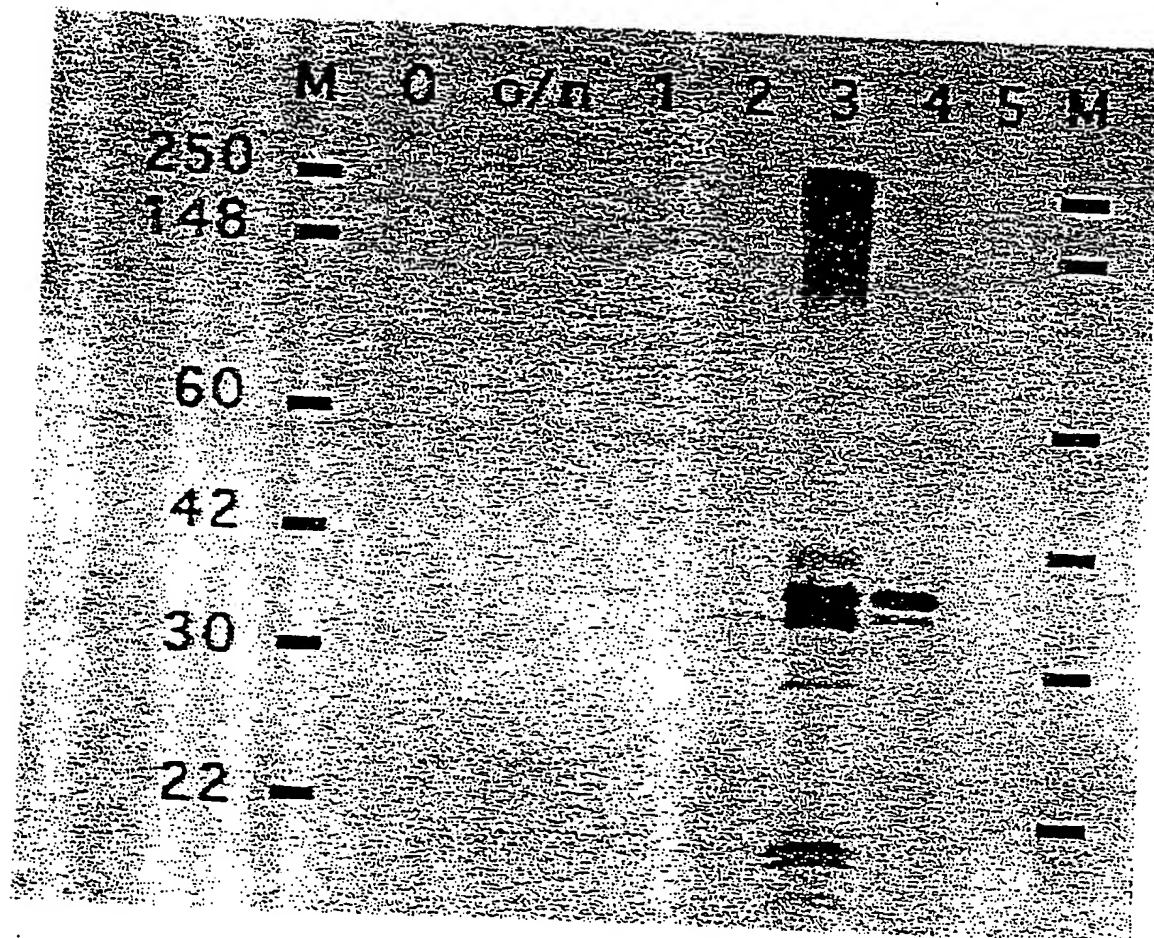


Figure 3

66360 "THE 6650"

148 — M (+) 1 2 3 4

60 —

42 —

30 —

22 —

17 —

—

—

—

—

Figure 4

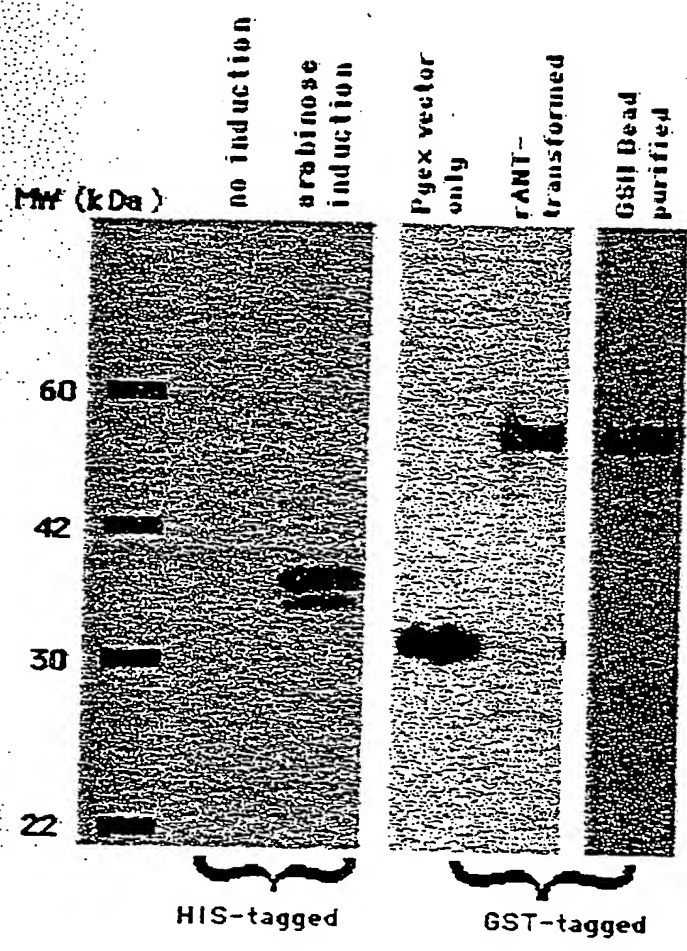


Figure 5

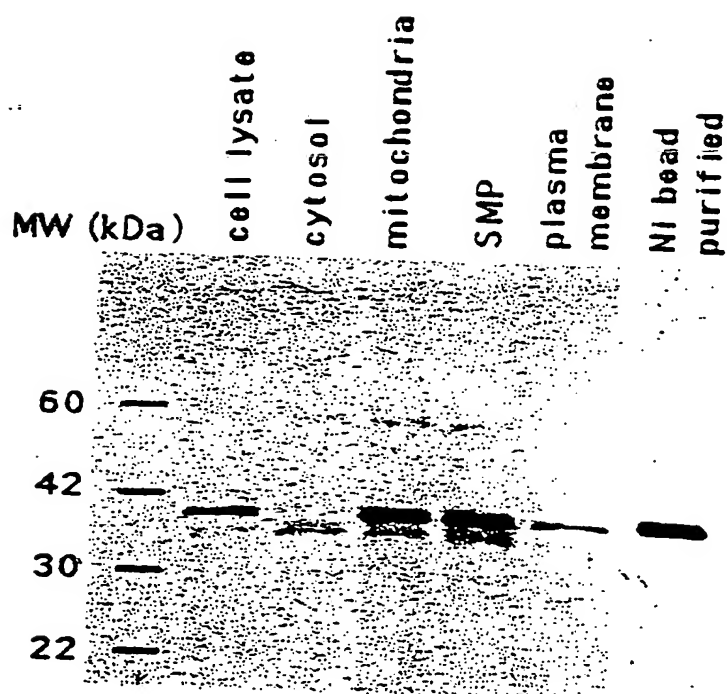


Figure 6

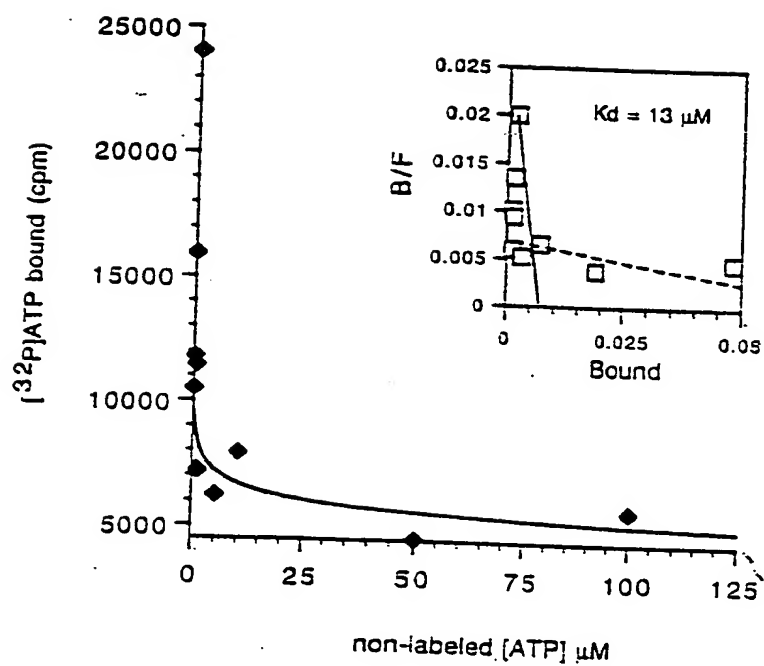


Figure 7

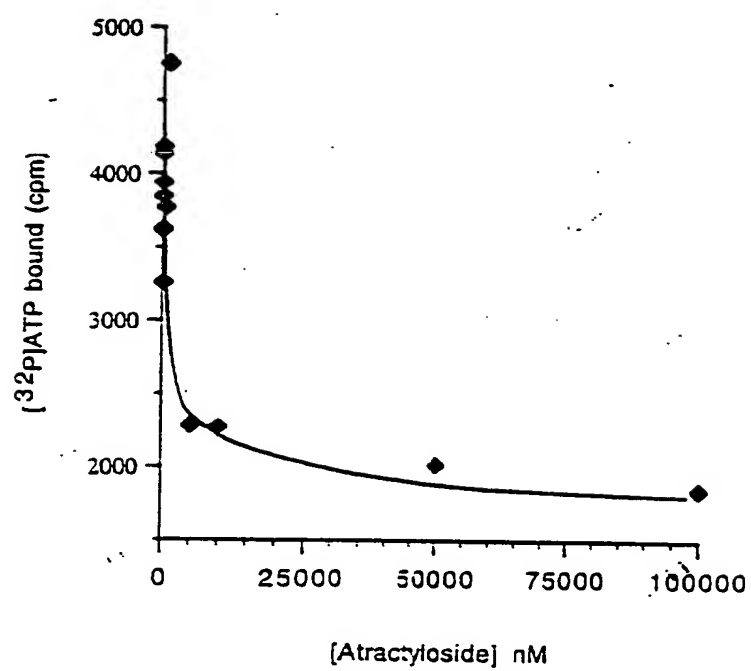


Figure 8

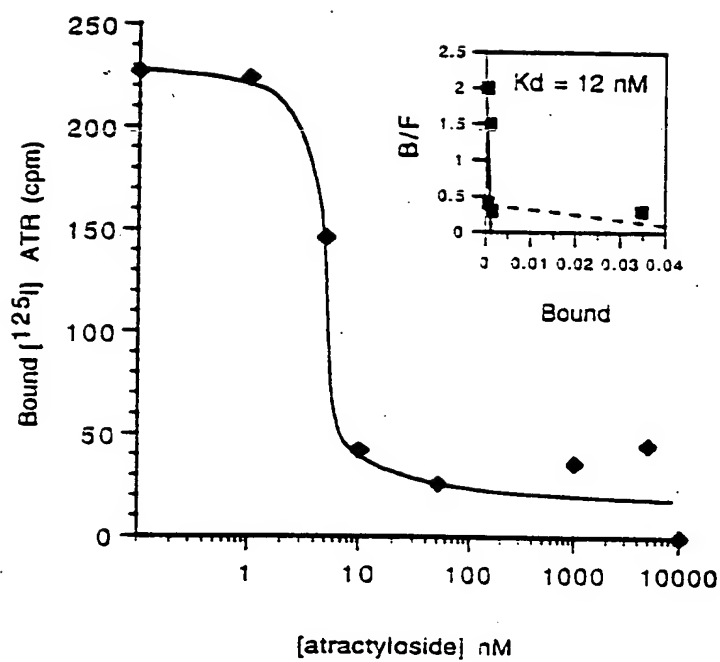


Figure 9

630300 140000Z

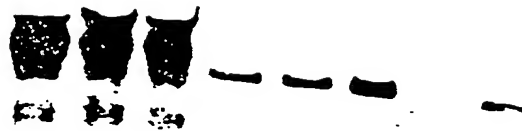


Figure 10 -

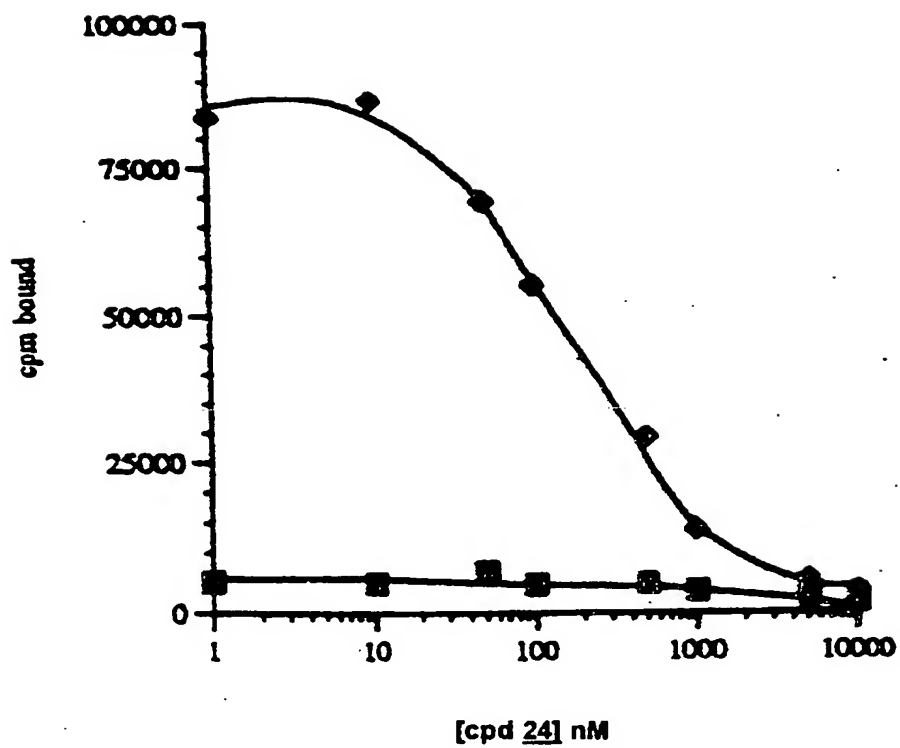


Figure 11

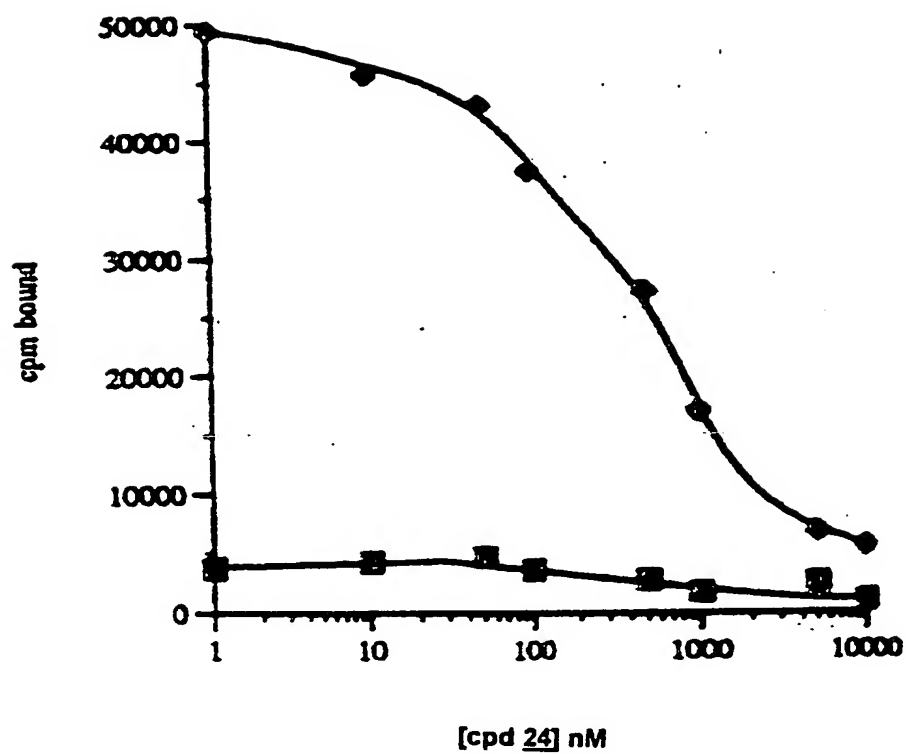


Figure 12

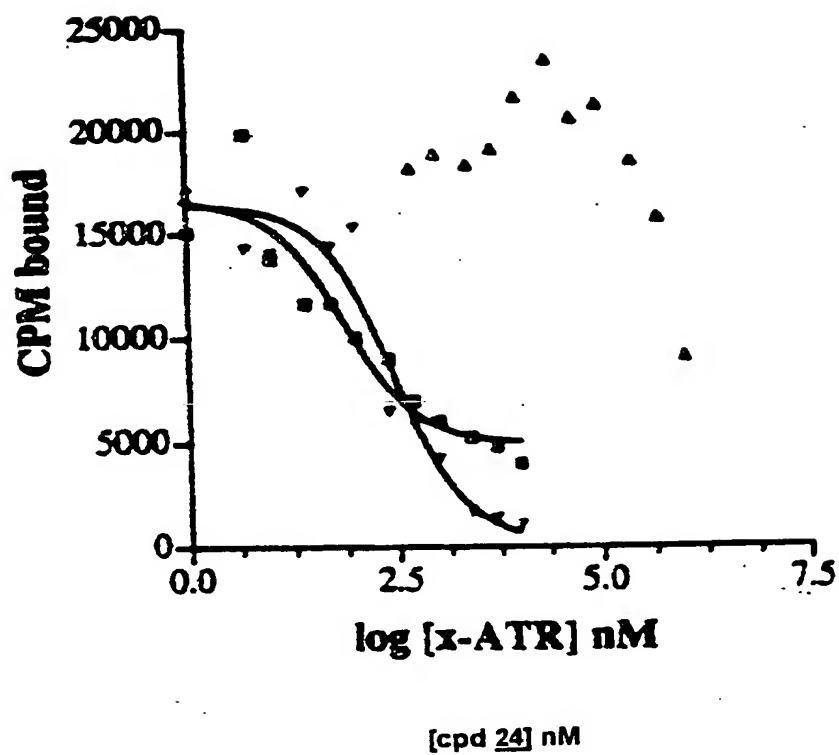


Figure 13

Figure 1 is a graph showing the competition of ^{125}I -ATP with compound 24 for binding to the ATR. The y-axis represents CPM bound (0 to 15000), and the x-axis represents $\log [\text{x-ATR}] \text{ nM}$ (0 to 7). Three data series are plotted: ^{125}I -ATP alone (squares), ^{125}I -ATP + 24 (triangles), and ^{125}I -ATP + 24 + 25 (circles). The circles show a sigmoidal decrease in binding as $\log [\text{x-ATP}]$ increases, reaching a plateau around 2500 CPM. The triangles show a similar trend but with higher binding at higher concentrations. The squares show a constant binding level around 12500 CPM.

Figure 14

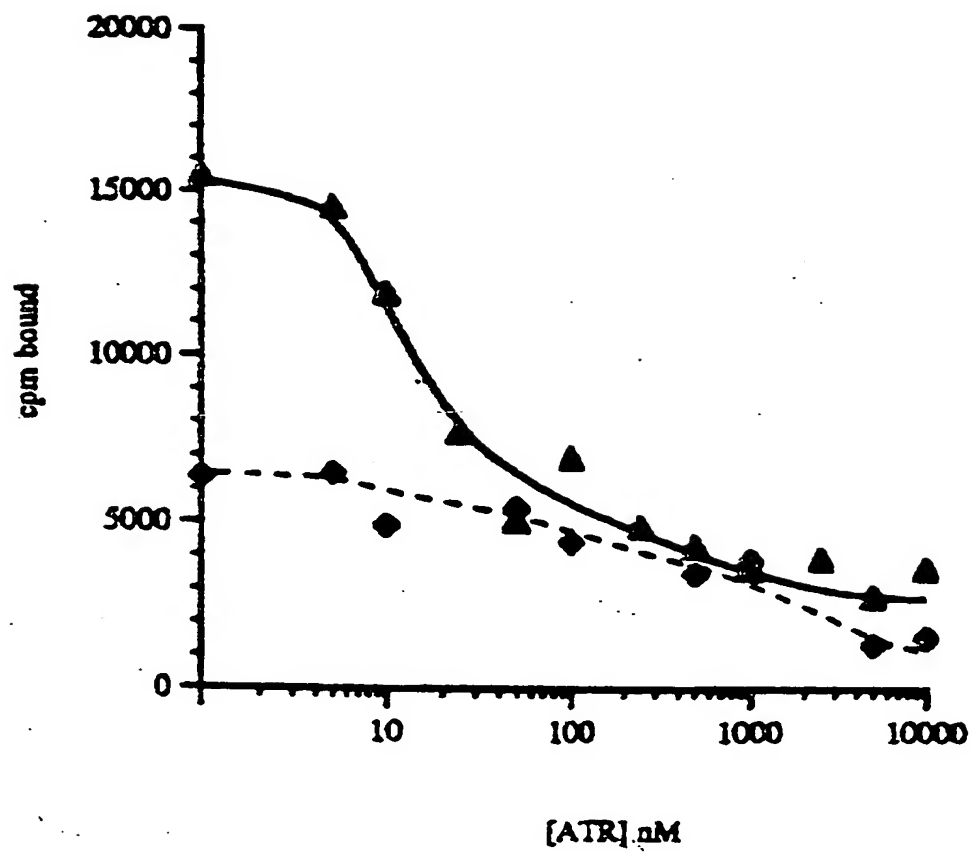


Figure 15

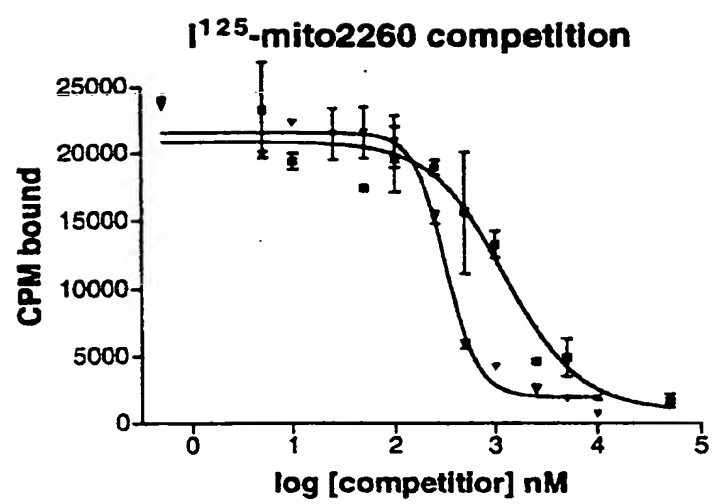


Figure 16

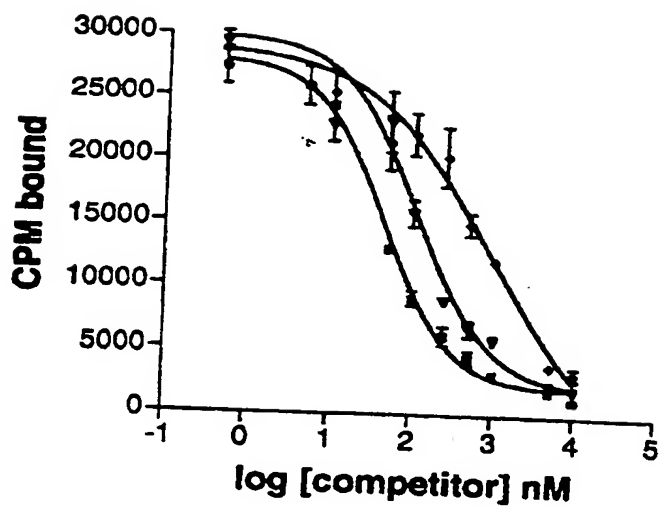


Figure 17

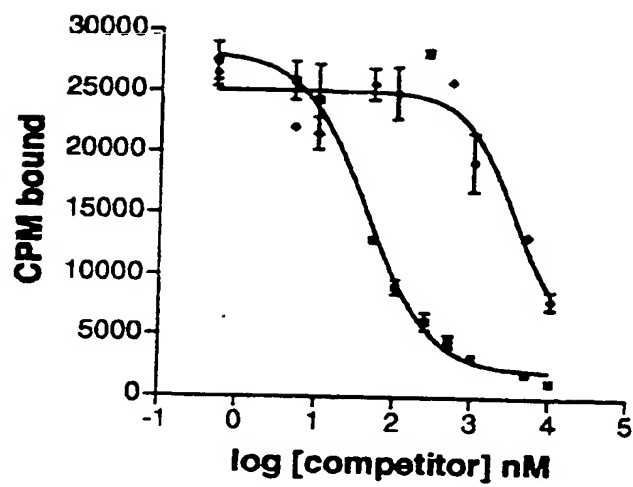


Figure 18

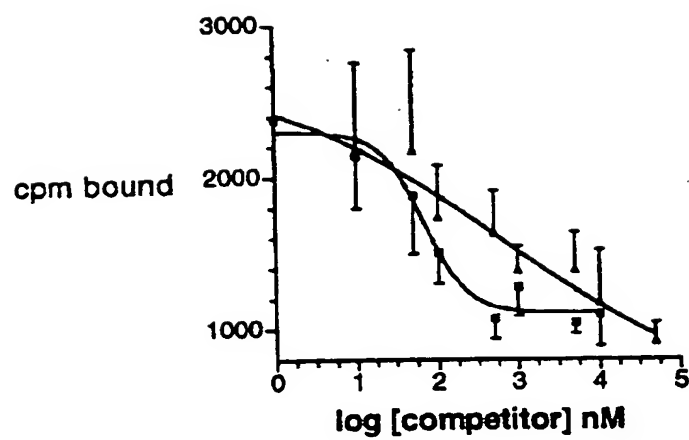


Figure 19